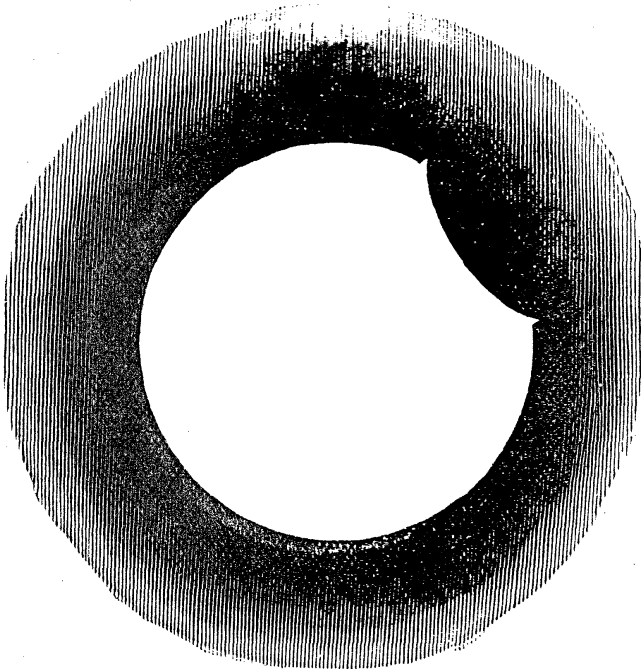


thorns of light were at once detected and mentioned by the observer. The accompanying sketch indicates this appearance very fairly.



The last contact, which I observed through massive driving cumuli, I believe to have occurred at

13^h 20^m 26^s L.S.T. = Sept. 29, 0^h 48^m 56^s L.M.T.

Phenomena of Jupiter's Satellites, observed at Mr. E. Crossley's Observatory, Bermerside, Halifax, with the 9½ inch Cooke Refractor. By Edward Crossley, Esq., F.R.A.S., and Mr. Joseph Gledhill, F.R.A.S., F.G.S., &c.

Date. 1875.	Satellite	Phenomenon.	G.M.T.			Observer.	Remarks.
			h	m	s		
April 13	I.	Ec.D. first beg. to fade	9	17	53	E. C.	Good.
						& J. G.	
		half gone	18	18		„	Fair.
	I.	disappeared	19	18		„	Good.
		Oct. R. first seen	11	29	30	J. G.	May be 20 sec. in error; bad definition.
		half out	31	0		„	Pretty good.
		quite clear of disk	33	0		„	Pretty good.

Date. 1875.	Satellite.	Phenomenon.	G.M.T. h m s	Observer.	Remarks.
April 19	I.	Tr. I. first contact	13 46 54	„	May be 30 sec. in error; bad definition.
		bisection	48 24	„	Not good.
		last contact	49 54	„	Pretty good.
	I.	Sh. I. fully on disk	13 54 24	„	May be 30 sec. in error; bad definition.
April 28	I.	Tr. I. first contact	9 57 57	E. C. & J. G.	Uncertain; no definition.
		bisection	59 27	„	
		just within	10 1 27	„	
	I.	Sh. I. first seen	10 16 27	J. G.	About bisected.
	I.	Tr. E. first contact	12 6 27	„	
		bisected	8 27	„	
		just clear	11 27	„	
May 14	I.	Tr. E. first contact	10 4 4	„	Fair.
		bisected	5 4	„	Fair.
		last contact	7 34	„	Good.
	I.	Sh. E. first contact	10 42 34	„	Fair.
		bisected	44 34	„	Fair.
		last contact	46 34	„	Fair.
May 22	I.	Ec. R. first seen	9 53 49	„	Perhaps 0.5 sec. late; fair definition.
			54 28	E. C. & J. G.	Uncertain.
		full brightness	55 40	„	Probably good.
June 13	I.	Tr. I. first contact	9 33 28	J. G.	Pretty good.
		bisected	35 58	„	Not reliable.
		last contact	37 58	„	Pretty good.
	I.	Sh. I. first seen	10 40 0	„	Partly on disk: at 10 ^h 43 ^m 28 ^s just fully on disk, prob.
June 14	I.	Ec. R. first seen	10 5 39	„	Very bad definition.
	II.	Ec. R. first seen	49 14	„	
		full brightness	52 0	„	

*Mr. Edward Crossley's Observatory,**Bermerside, Halifax.**September 29, 1875.*